

Rabbit B3GNT2 Polyclonal Antibody | anti-B3GNT2 antibody

Anti-B3GNT2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126553	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

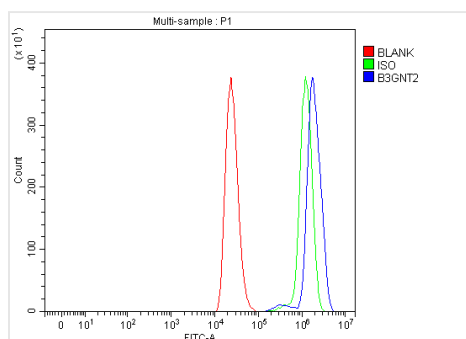
PRODUCT SYNONYMS

B3GNT2; Polyclonal Antibody; Anti-B3GNT2 Antibody Picoband; anti-B3GNT2 antibody

PRODUCT SPECIFICATIONS

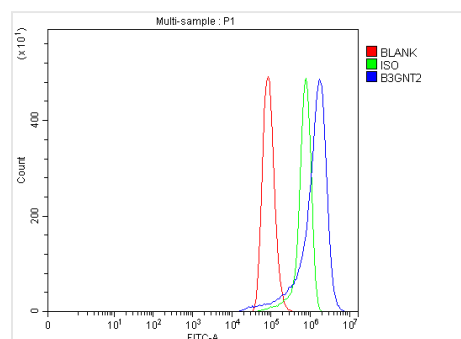
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-B3GNT2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human B3GNT2 recombinant protein (Position: R6-C397).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



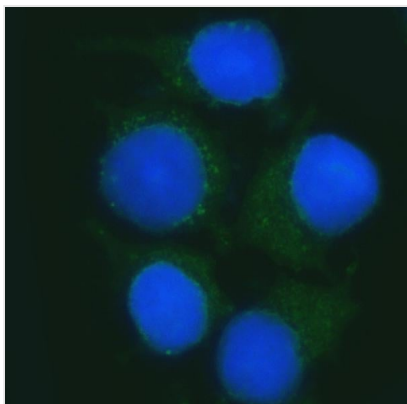
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-B3GNT2 antibody (AAA126553). Overlay histogram showing THP-1 cells stained with AAA126553 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-B3GNT2 Antibody (AAA126553, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



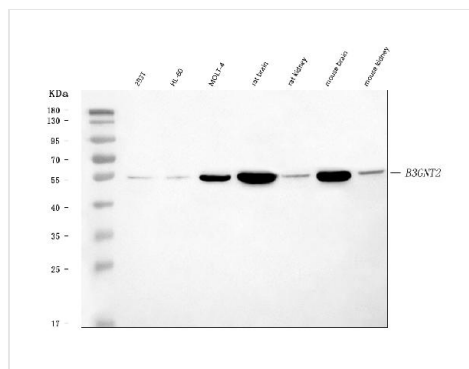
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HeLa cells using anti-B3GNT2 antibody (AAA126553). Overlay histogram showing HeLa cells stained with AAA126553 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-B3GNT2 Antibody (AAA126553, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of B3GNT2 using anti-B3GNT2 antibody (AAA126553). B3GNT2 was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-B3GNT2 Antibody (AAA126553) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of B3GNT2 using anti-B3GNT2 antibody (AAA126553). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human HL-60 whole cell lysates, Lane 3: human MOLT-4 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat kidney tissue lysates, Lane 6: mouse brain tissue lysates, Lane 7: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-B3GNT2 antigen affinity purified polyclonal antibody (#AAA126553) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for B3GNT2 at approximately 55 kDa. The expected band size for B3GNT2 is at 46 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-B3GNT2 antibody	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2 is an enzyme that in humans is encoded by the B3GNT2 gene. This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II transmembrane protein. It prefers the substrate of lacto-N-neotetraose, and is involved in the biosynthesis of poly-N-acetyllactosamine chains. Two transcript variants encoding the same protein have been found for this gene.
Product Categories/Family for anti-B3GNT2 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	977380204
NCBI GeneID	10678
NCBI Accession #	NP_001306004.1
NCBI GenBank Nucleotide #	NM_001319075.1
UniProt Accession #	Q9NY97 ; Q54AC1 ; Q9NQQ9 ; Q9NQR0 ; Q9NUT9
Molecular Weight	45,484 Da
NCBI Official Full Name	N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase 2
NCBI Official Synonym Full Names	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
NCBI Official Symbol	B3GNT2
NCBI Official Synonym Symbols	B3GNT; BGNT2; B3GNT1; BGnT-2; beta-1; 3-Gn-T1; 3-Gn-T2; B3GN-T2; B3GNT-2; BETA3GNT; beta3Gn-T1; beta3Gn-T2
NCBI Protein Information	N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase 2
UniProt Protein Name	N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase 2

UniProt Gene Name	B3GNT2
UniProt Synonym Gene Names	B3GALT7; B3GNT1; BGnT-1; Beta-1,3-Gn-T1; Beta3Gn-T1; Beta-1,3-GalTase 7; Beta3Gal-T7; Beta3GalT7; b3Gal-T7; BGnT-2; Beta-1,3-Gn-T2; Beta-1,3-N-acetylglucosaminyltransferase 2; Beta3Gn-T2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/b3gnt2-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126553>